April
1871-2

Ag 1-5

April 6-71

Cattle show at Nandi.
held on the 12th March 1872.

Indexed

General 1872 No 2[illegible]

From Superintendent Th Dy

To Secretary to the Ch. Commr

Dated 27

Despatched 27 " February

Received 29

Rec'd 15

Enclosures No. 2

General No.

No 341 } 1871-72.

Suggestions regarding the Govt Cattle Show to be held at Nandi

---

Ch. Comm.

This Supt recd office Instr. has submitted for approval — 11/2/72

This might be replied to in continuation of the 2 Dy

Revenue
No. 241

Nundidroog Division
Superintendent's Office
MYSORE COMMISSION Bangalore 12th February 1872.

Regn No 181

To

The Secretary to the
Chief Commissioner
of Mysore.

Sir

The Chief Commissioner having been pleased to direct me to take the position ~~of President of the Committee for the Cattle~~ Show, to be held near Nundidroog next month, I have the honor to submit, that in my opinion, the 12th of March would be the best day for it, as the feast of the Shevaratree commences on the 7th, and thus, 5 days will be allowed for the Cattle to assemble.-

2.- I would beg also to add, that if the Chief Commissioner, can give 500 Rupees this time, I think such prizes may be offered as will stimulate the people

to bring forward their best Cattle.

3. The Rules of last year seem suitable: the only portion [illegible] therefore of the Notification which it will be necessary to revise will be the Prizelist.

4. I would suggest that the Prizes for Cows and Heifers be allowed to stand high, as the very fact of Extra consideration being shewn for this class by the Committee, may induce owners to bring forward good ones.

5. I would beg to propose that the officers marginally noted be Members of the Committee, as also any others whom Colonel Meade may desire to nominate, and that the names of the Officers on the Committee, as finally decided by the Chief Commissioner, be Entered in the Notification.

6. Beg to Enclose a draft in Original forwarded to me by Colonel Roddam together with Copy of a Memorandum by Mr. Dykes to which it gave cover, but I am doubtful, whether Mr. Dykes' principle is good in this

* Colonel Roddam, Manager, Punjaub Exhibition.
Colonel Meade. — R. O. Fitzgerald Esquire
Major Campbell. — Mr. Macdonald Esquire
Major Cracroft Esquire. — Mr. Kardinegar.

Country, where it is not the practice of the people to feed up the Heifers and Cows in the same manner that they care for, and fatten, their young Bulls and Bullocks.

7. A list shewing the proposed Schedule of Prizes is appended.

I have the honor to be,
Sir,
Your most obedient Servant,

Supernintendent.

Nails

List of Prizes for a Government Cattle show at Nandi, on ——— the — March 1872.

MYSORE COMMISS. CO.

No.		Rupees
" — 1	For the best full grown bull ———	50.
" — 2	— " — five year old bull bred in the Mysore Province. ———	40.
" — 3	— " — four year old bull ———	20.
" — 4	— " — Two year old bull ———	15.
" — 5	— " — Yearling bull bred in the Mysore Province ———	20.
" — 6	— " — five year old or aged cow in calf or with calf at foot, bred in the Mysore Province. ———	25.
" — 7	— " — four year old Cow with Do Do ———	30.
" — 8	— " — three year old cow with Do Do ———	10.
" — 9	— " — three year old heifer ———	20.
" — 10	— " — best yearling Mysore bred heifer ———	20.
" — 11	— " — best pair of working Cattle, the property of the Exhibitor. ———	40.
" — 12	— " — 2nd best — Do — Do — Do ———	30.
" — 13	— " — 3rd Do — Mysore bred ———	20.

Class 2, Country Horses & Ponies

" — 14	— " — best full grown Mysore bred Stallion ———	40.

No 15. For the best yearling colt bred in the Province. ——— 20.

" 16 " " Pure [illegible] Grown Mare, Mysore breed. ——— 25.

" 17 " " best Filly Do Do ——— 15.

" 18. " " " Country bred Galloway under 14 hands ——— 30.

" 19. " " " Do Pony under 13 hands 2 inches ——— 20.

" 20. " " " Do Do under 13 hands ——— 10.

Total Rupees 500

The right of withholding any prizes is reserved by the Judges should the competitor is not considered deserving thereof.

To

The Offg. Secretary to the Chief Commissioner

of Mysore

Sir,

I have the honor to request you will submit to the Chief Commissioner the accompanying prize list for a Cattle Show which the Committee propose should be held at Kundy on the March immediately after the Shivarathri feast which Commences on the idem. Will you please obtain the Chief Commissioner's sanction for the Show, the disbursement of Rs. 300. and for the Notification in the Mysore Gazette and Circulars as on the last occasion.

In former correspondence I had the honor to bring to notice the fine Cows exhibited at the Cattle Show, and their never being shown at any of the provincial Cattle fairs, also the general indifference of the people to their Cows nurture and breeding. The Committee of the Nellore Cattle Show have also remarked on this defect. With a view to trying to induce the natives to exhibit Cows and turn their attention

to

to their breeding the Committee have entered more prizes in this Class.- Mr Dyke retired Madras Civil Service, formerly Collector of Nellore has written a letter to the East India Finance Committee, a Copy of which the Committee submit for the Chief Commissioner's information and would suggest that a portion of the letter, or its Summary, should be published for general information in the Mysore Gazette.-

The arrangements for the last Cattle Show made by Mr Kristnaiengar and the Assistant at Ballapore were excellent and need no modification. The Committee have named a date for the Show later in the feast than on the last occasion, which was on the 4th day of the feast and was found too early- the Cattle not being collected in full force -

I have the honor to be
Sir
Your most obedt Servt

Bangalore
16th January
1872

On special duty

List of Prizes for a Government Cattle Show at Nandy on the March 1872.

No.			
1	For the best full grown Bull		20. " "
2	" 2d best	do	15. " "
3	" Five year old Bull		15. " "
4	" Four year old Bull		10. " "
5	" Three year old Bull		5. " "
6	" Yearly Bull with Amrut Mahal pedigree		10. " "
7	" Yearly Bull bred in Mysore Province Jamjibreed		8. " "
8	" Five year old or aged Cow with Calf at heel bred in the Mysore Province		15. " "
9	" Four year old Cow with Calf at heel, or in Calf		18. " "
10	" Three year old Cow with Calf or in Calf		21. " "
11	" Three year old heifer not in Calf		12. " "
12	" Yearling Mysore bred heifer		6. " "
13	" Best pair of working Cattle showing Amrut Mahal blood		20. " "
14	" Best pair of working Cattle property of the Exhibitor		30. " "
15	" 2d best	do do do	25. " "
16	" 3d best	do do do	20. " "
17	" 4th best	do do do	15. " "
18	" 5th best	do do do	10. " "
19	" 6th best	do do do	5. " "
20	" Best full grown Stallion Mysore bred		10. " "
21	" Best full grown Mare Mysore bred		10. " "

Rupees 300. " "

On special Duty
President
of Cattle Show Committee.

The Burlington,
Cork Street, 3rd July 1871.

These Shows were instituted for the general improvement of the breed of cattle. The bulk of the prizes were however for some years given for Bulls. This distribution was in accordance with native ideas. It was the custom to feed up the young bulls for early sale as draught bullocks, and leave the heifers to get on as they could, and breed when strong enough.

The necessity for giving more prizes for cows and heifers, was brought to notice when the late Sir W. Denison was present at the Addaurki Show. The prize list was revised. Prizes were given for heifers of every age, and the value of the prizes for Cows was greatly increased. Subsequently seperate prizes were given for yearling stock, and stock under one year of age. And the Village Officers were directed to register the births and give certificates to be produced at the Shows.

In 1869 inquiries were made as to whether any effect had been produced by these measures in making the cattle

breed

breed at an earlier age. It was thought, when the heifers had been well fed from the day they were born, that they would hold over. The Tahsildar of Gingole reported that this was the case, and gave details as to the owners of the animals, their age etc.

In 1870 prizes were offered for cows under 5 years of age with calf at heel. There were no entries, but 4 heifers of 3 years of age and 23 heifers of 4 years of age were exhibited in calf, and the prizes I had offered was divided amongst the owners of the 4 heifers of 3 years of age in calf.

In the current year (1871) prize have been again offered for cows under 5 years of age, with calf at heel, and there have been successfull competitors at the two shows held at Addanki and Nellore respectively. At the Addanki Show 3 cows were exhibited 4 years of age with calf at heel. At the Nellore Show a month later, 6 cows were exhibited - 4 years of age with calf at heel.

The shows have therefore been eminently successfull in one respect. They have brought to notice a most important defect in the present system of breeding stock; and in showing

showing how this defect may be remedied they have had an effect that was never anticipated and is of more importance than any effect that was anticipated.

The ryots have been made to see what are the results of feeding up the heifers instead of giving the whole of their attention to the young bulls, and a step has been thus gained that may be of incalculable importance if duly followed up.

In an article in the Madras Weekly Mail of the 25th May last headed "Shows and Shams" an allusion is made to this important result. It does not appear from the official correspondence quoted that either the Collector or Mr. Thacker, the Veterinary Surgeon on special duty, or the Board of Revenue or the Government seem to have thought it worth while to notice the facts that the shows have pointed out a mode of indefinitely increasing the agricultural resources of the Country. The Government simply think that the results obtained are not "so discouraging" as the present Collector supposes, and the Board direct a series of inquiries to be made essentially inquisitorial and calculated to make the people afraid to improve their stock.

The existing order as regards

Pasture

pasture, and the opinions expressed by the Collector against the Shows, will have done much harm, but the publication of the opinions of the Collector by the Madras Government may be made of much use, if the Home Government should determine on reconsidering the order as regards pasture, and would take the opportunity when the correspondence on the cattle Shows come before them, of affirming that the obvious advantages of making cattle breed so much younger is a question that affects the Empire generally, and is one that they require shall be kept strictly in view by the local Authorities and local Governments. The progress that has been made has no chance of being steadily maintained unless it is thus supported.

Signed J.W.B. Dykes.
Madras Civil Service.
Retired List.

Copy."

On Special duty.

General No: 5516

Gl: " — 201

H C C Office

Bangalore 15th Feby 1872

Dept

To Col. J. Morse

Asst Secretary Govt

& Res. Secretary Cattle Plague Committee

Sir

In reply to your letter No 241 of 12th Inst., on the subject of the Cattle Plague Meeting held on the 13th idem, I have the honor to inform you that I am directed to request you to suspend the payment of the amounts awarded to you, & to withhold further proceedings in the matter of the Cattle Plague.

2. Col. Commissioner informs me that the Rs. 350 was not sufficient to cover the expenses of this procession, & requests that a further sum may be allowed for the purpose.

Col. Morse is entitled to the expenses of conveying cart & bullocks & persons in the procession stated in his letter

M 15 Feby 72

9
6-4

Gen'l 1872 No 5516
Gen'l 201.

To
The President: Receiving
Cattle Show Committee

Dated 15 February/72
Answ'd Do.
Rec'd 17th " No. 5516
" 201

In reply to letter 241 of the 12 Inst. conveys approval to his proposal regarding the Cattle Show.

Secret

No. 1026

4.0.

~~Secret~~ 1872

To The Superintendent

Dated Vandiemens Dir Vandiemens 31st May

Despatched 1st June

Received 6 JUN 5

Enclosures No 0

General No. 1026

Acts No. 40

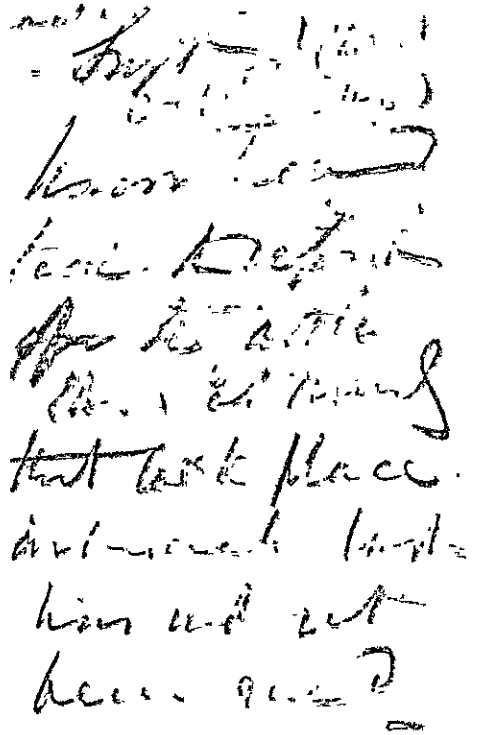
1872/3

Has the honor to request that the Inspector will as President of the Committee appointed to preside over the Cattle Show held at Nuwara Eliya in March last, be requested to submit a Report on the same as per accompanying Statement of such details as may appear useful and interesting in the Annual Administration Report.

Byrde

2115 Pr. 5.3.

Wickes



Trivandrum 18th 3rd 72.

From The Superintendent
Nandidroog Division.
To The Secretary to the
Chief Comr of Mysore.

Dated 4th June 1872

Despatched /

Received 7th " "

Enclosures No

General No.

4 No. 59 } 1872/73

Journ No. 1026/40 of the 31st
May 1872.

Col. Boddam has
promised to send in
the report on the Nandy
Cattle show, this week.

Secretary for info
mation.

Date of receipt 7/6/72

General
No. 59

Nundidroog Division
Superintendent's Office.
Bangalore the 7th June 1872.

To

The Secretary to the
Chief Commissioner of Mysore.

Sir,

In reply to your docket No. 1026/40 of the 31st Ultimo, Calling for a report on the Cattle Show held at Nundi in March last, I have the honor to inform you that I have asked Col: Boddam for the Report, which he promised me more than 3 months ago, and he has promised to send it this week.*

I have the honor to be,
Sir,
Your most obt. Servant.

* A draft of it has just reached me — J. C.
Mar. 9th

J. Campbell
Superintendent.

From The Superintendent Mandiv[illegible] Division -
To The Secretary to the Chief Comm[illegible] of Mysore.
Dated 25th June 1872
Despatched
Received
Enclosures No. 2
General No. 1345
Q No. 1965 } 1872/73
This Office No 59 of the 4th Instant.

In continuation of the above has the honor to submit the proceedings of the Cattle show Committee and the list of prizes awarded, which were received from Col: Boddam on the 22nd

[illegible]

[illegible] Secretary with reference

28-6-72

Report on the Cattle Show at Kandy on the 12th March 1872.

The Prize list accompanies this report.

Great numbers of excellent Bulls and Bullocks were exhibited on this occasion, and there appears to have been no misconception on the part of the natives about the object of the Government Show, such as created a panic at the first show - the natives eagerly contended for the prizes, and brought so many fine animals, that the Committee had considerable difficulty in selecting for the prizes where equality in excellence was contested.

As regards country bred horses and ponies, the show was again a very poor one, so much so, that the Committee withheld most of the prizes, and awarded them as an

encouragement to the people who brought good Cows and heifers. there was certainly an improvement in the number and quality of the Cows Exhibited, still much has to be done in this respect. While the natives neglect the nurture of the heifer and full grown Cow, and bestow all their care and the best forage and food on the young bulls.

At a future Cattle show, the Committee propose (1) that the prizes should be awarded according to the value of the Animals shown, not as before according to their age (2) that the show should be held at or near Bangalore (3) Considering that there were from 8 to 10,000 heads of Cattle brought to the fair, and that all the finest Animals were Exhibited, the Committee would beg leave to suggest that the sum of money given in Prizes should be increased to 500 Rs. at the next Cattle show.

The arrangements made by the Authorities on the spot, were

perfectly satisfactory.-

The Committee recommend that the Bull which gained the first Prize should be bought by Government and kept in the Lal Bagh for breeding purposes.-

President
Cattle Show

Genl Do 1686?
345
D 24.6.72.

Dispd 2d July 72

This event is I think a very encouraging one, and justifies the hope that the Cattle Show & Industrial Exhibition may prove a source of much benefit to the people.-

I shall be prepared to sanction Rs.500 in the Appropriation for the charges of the Cattle Show & if necessary more.

Accordingly

a suitable letter can be found for it among the Papers, and may be made secondary -

The Instructions of the Rate referred to in the Order dated June 5. have already been returned -

Capt Hunter and the Pilot Pearce the Master Officers who formed the Committee & attended at the Office -

The Report underwritten is duly made -

The Insurance for the Ship should be stopped by the Secretary & the Superintendant with the Ship to proceed to Bermuda therefore

L. C. Lewis

List of persons who obtained prizes at the Cattle Show held at Nundi on the 12th March 1872

Names of individuals who obtained prizes	Place of residence & Taluk	Description of Cattle	Amount of Prize awarded Rs	as	p	Remarks
Hannamen Nioo	Chickaballapur	Best full grown Bull	35	"	"	
Yelloor Mune Gowdah	Davendahully	2d ditto	10	"	"	
Ujjavarum Reddah	Chickaballapur	Best 3 year old Bull	20	"	"	
Nunje gowdah	Davendahully	2d do do	5	"	"	
Venkatramanah	Oscottah	Best 4 year old Bull	15	"	"	
Yelge Gowdah	Chickaballapur	Best 2nd	10	"	"	
Timmiah	Bangalore	Best yearling do	10	"	"	
Avasi Subba	Chickaballapur	do	10	"	"	
Avasi Dasi	do	Best aged Cow	15	"	"	
Dasappah	do	Ditto	10	"	"	
Chennaroy Junta Nunjapah	Davendahully	Cow	10	"	"	
Kumbraswamy	Bangalore	do	15	"	"	
Mare Gowdah	Chickaballapur	do	10	"	"	
Thorlpully Venkasia	Davendahully	do	5	"	"	
Biera Reddy	Chickaballapur	do	5	"	"	
Subba	do	do	5	"	"	
Muniah	Davendahully	Best Yearling Steer	5	"	"	
Venkatanamah	Chickaballapur	do	5	"	"	
Balareddy	Simmanik Polya	do	5	"	"	
Yerre gowdah	Sidlaghat	Best pair working Cattle	30	"	"	

Amount Rs 350 awarded by Government
Rs 350 Deposited in Bank of Madras

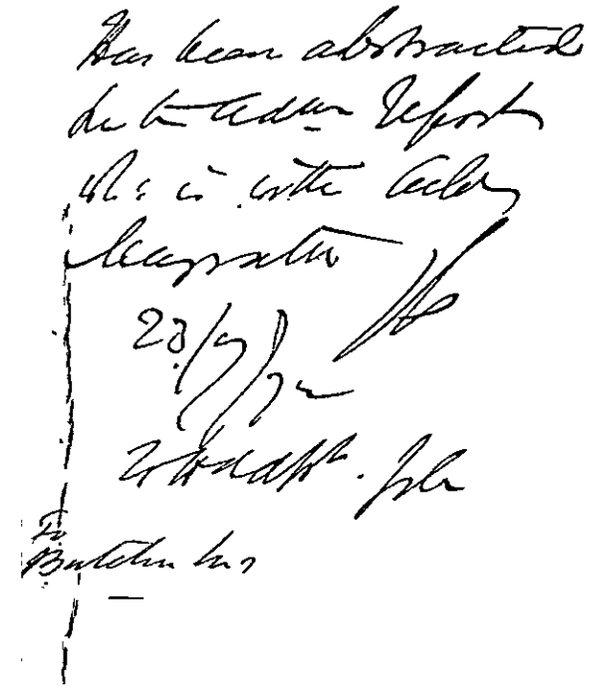
Lukshmegowdah	Bangalore	3d do do	15	.	.	1st Class Cow
Ramreddy	Siddaghat	Pair working Cattle	10	.	.	Ryotwar Cow
Ramalegowdah	Dawndahally	do	10	.	.	Prize Cattle
Ramegowdah	Siddaghat	do	10	.	.	
Guffoor Khan	Chickaballapoor	do	10	.	.	
Ramasawmy	Toomkoor	do	10	.	.	
Bulchegowdah	Voscottah	do	10	.	.	
Krishnagah	Chickaballapur	do	10	.	.	
Mr Mahomed ali	Chickaballapur	Best County bred mare	15	.	.	
Mr Brown	Bangalore	do	15			
		Total	370	.	.	

Bangalore
25th March 1872

Signed E Boddam
Secretary
to Cattle Show Committee

A True Copy

Lieut
Superintendent
Cattle Show



(65)

Agriculture File No. 1 of 1872.

Sls/1-23.

Cultivation of Sun flower Seed.

Indexed

A. O. Hume Esq

Agri 1-72-1

Dear Sir

I am desired by Col. Meade to send you a small bottle of sunflower* oil, which I have had expressed from some seeds that Col. Elliot grew in his garden at Mysore.

The yield of seed was about 40 fold or a little more, and of the 50 seers he sent me (our Kristnaraj seer contains 71.5 C inches) I had 40 seers made into oil, from which after filtering it through blotting paper, we got about 6 quart bottles, or say 1 gallon, of fine oil, like the sample I send you.

Col: Meade desired me to send you a bottle demi officially and also one

to

* A species of Helianthus, N. O. Compositæ

to the agri-horticultural Societies of Calcutta and Madras, one to Coll. Boddam as Secy: of our Agri: Hort. Society, and one to our local Museum

I am &c.

Bangalore
July 10. 1872

M. J. Sackville
Offg. Secretary

To
A. O. Hume Esqr.
Secy: to Govt. Deptt Ag: Rev: & Com:

Department of Agriculture, Revenue & Commerce;

Simla the 26 July 1872

Agri 1-7 2

General My dear Sir,

I have received your demi Official of the 18th instant, and beg that you will Kindly convey to Colonel Meade my thanks for the bottle of Sunflower oil which you have sent me at his request.

I shall feel much obliged if you will Kindly let me Know:

1. The price at which the oil can be turned out per gallon - all expenses included, that is rent of land, cost of culture, of reaping, preparing and pressing the seed, of cleaning the oil, and of

other

other similar processes.

2. The average number of gallons per acre likely to be produced; and.

3. The value of the refuse as fodder or cattle food.

I am,
Yours truly.

To
Lieutenant Colonel J. Pickle
Bangalor.

The further info: cannot be supplied with any accuracy. The seed was as stated from Supt. of Agri: in well watered garden ground with a yield per acre of 40 pd. The seed was expressed in a stone oil mill - 40 seers filling it. The straining was done in the office

through blotting paper.

Col Boddam may be asked to keep an account of the seed sown, & yield &c. and to keep such records of the subsequent operations as will enable the Chief Ck & Supply hereafter to form somewhat wholesale estimates.

I have no doubt the refuse of the oil will be useful as cattle food - also as manure - & Supply might be relieved & the Depr. Jail Manual the above effected.

W. Mure
2 Aug 1872.

Supply Note I regret that the Compound being here raised as a provisional experiment, no data are forthcoming to give the information asked for but that this will be done in time & Instructions now being issued to the Jail Officers concerned in the Course -

Rey Col Boddam & Lieut 4

852

Agri 1-72-93

5/

From 1872. Jy. 179.

To The Secretary to the Agricultural & Horticultural Society of India

Dated 30th July

Despatched

Received

Enclosures No.

General No. ...

No. ...

1872/143

Acknowledging receipt of Sundry Seed and Soil, & requesting particulars of the Yield &c.

S. H. Robinson Esqre
Offg. Secretary Agric
Horticultural Society of

To

The Offg. Secretary
to the Chief Comissioner
of Mysore.

Dated Metcalfe Hall- Calcutta 30 July

Sir

I have the honor to acknowledge
receipt of your favor of the 1st inst with Seeds of
Sun-flower and 2 pints of Oil expressed therefrom
and to request the favor of your conveying to the Chief
Commissioner the best acknowledgements of the Society
for the presentation.

I have also to request the favor of your
kindly causing to be furnished to the Society - particulars
of the yield of the Sunflower seed per Acre and the way of
producing the oil - together with any other particulars and
details you consider would be useful in the Cultivation of
the plant and the manufacture of the oil.

I have the honor to be
Your most Obt Servant

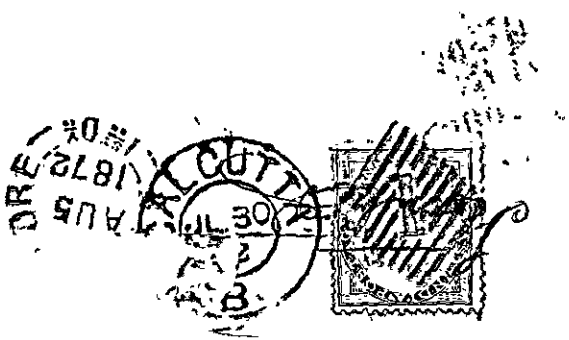
Offg Secy to Govt

Stamped Cover

To

The Offg. Secretary to the
Chief Commissioner of Mysore

Bangalore



Agric 1-72-4

My dear Sir,

Colonel Meade desires me to say, in reply to your letter of the 26 July, that he regrets that the Sun-flower having been raised as a private experiment, no reliable data are forthcoming to give the information asked for, but that in some plantings now being made, careful observations shall be made and the results communicated in due course.

No doubt the refuse will be useful as cattle food and also as manure as the cultivators already make use of the refuse of the seeds of the Pongamea Glabra for the latter purpose after the oil has been expressed.

I am &c

(signed) J. Puckle

Officiating Secy:

Bangalore
2nd August 72

J. Geoghegan Esq:
Secy: Depte Agr: Rev: & Commerce
Simla.

General No. 2409 & 2413.
Q- 408

Sept 1-72-5

Hd. Q. A. Office
Washington 3rd August 1872

To
Colonel Wood Davis
On Special Duty
Washington

Sir,

I am directed by the Chief Engr. & Surveyor to transmit for your information Copy of a letter from Dr. Geo. Engelmann, of the Agricultural Dept. of the Govt. of India, and to request that you will be so good as to make arrangements for planting 1/4 of an acre of ground with the Mauritius Reed as an experiment, and that careful observations with a view of submitting to Congress a Report on the Subject may be made, both as to the results obtained in this Country and in the Colonies.

2. In addition to a similar trial being made in the Central Jail, Col. Meade desires you will supply Dr. Henderson with the requisite quantity of Seed, and that you will send, for his guidance, the form you propose to adopt to tabulate the information called for by Dr. Geo. Engelmann, so that both may be Counterparts.—

I have &c.
J. B. Fry
Asst. Adjt. Genl.

making careful observations of the growth and yield of the plants in the manner indicated, and that you will submit this Office a tabulated information in due course

Dy 26th July 1872

2/1872

Hd. 2410
P 519

Copy forwarded to Dr. Henderson for his guidance. with Copy of Dr. Geo. Engelmann's letter.

C
C-12.

1872.

To

Colonel E. Boddam
On Special duty
Bangalore.

Dated 3d August.

Despt
No. 2609
9 4861/2

Requests to make arrangements to plant ½ an acre of ground with sun-flower seed, and to carefully note & report the results to this Office for submission to the Secretary in the Agricultl Deptt. instructions being at the same time given for the conduct of a similar trial in the Central

2d
C. 12.

Agric 1-72 6

Secret

From

1872 No 2490
421

To The Offg: Secy: Agri: Hort: Society in India
Calcutta

Dated 7th

Despatched August

Received

Enclosures No.

General No. 2491 } 1872.
Revenue No. — }

In reply to letter dated 30th Ultimo, regrets that under the reasons stated, that the information asked for cannot be given, but shall be communicated in due course.

Copy

Gen. 2490
421

Mysore L. L. Office.

Bangalore 7 August 1872.

No.

The Offg: Secy: Agrick[al] and Horticultural Society of India.
Calcutta.

Sir,

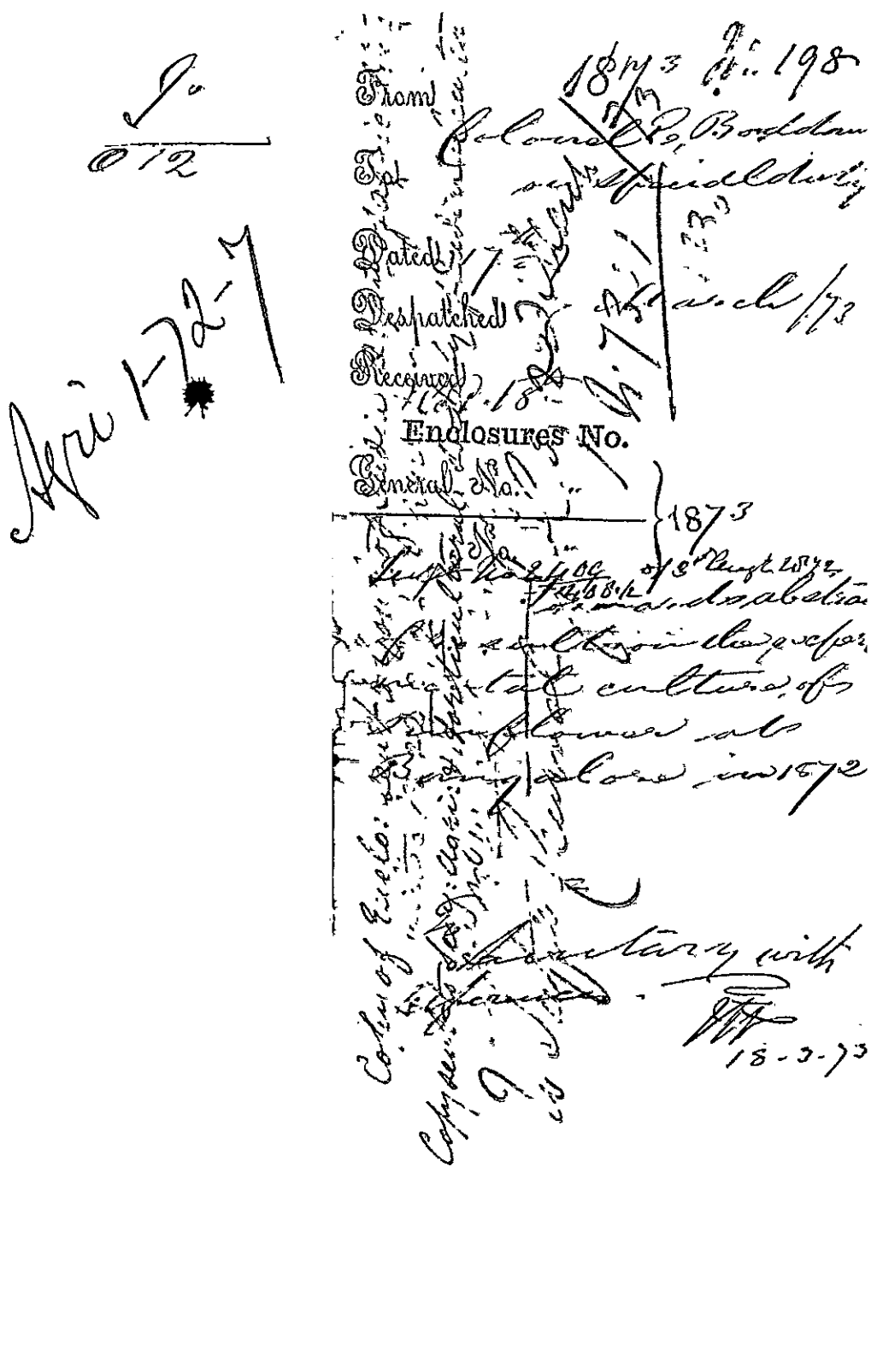
In reply to your letter dated 30th ultimo, I have the honor by direction of the Chief Comm[r] to state that he regrets that the Sunflower having been raised as a private experiment, no possible data are forthcoming to give the information asked for, but that in some plantings soon being made, careful observation shall be made and the results communicated in due course.

2 No doubt the refuse will be useful as Cattle food, and also as manure as the Cultivators already make use of the refuse of the seeds of the Pongamia Glabra for the latter purpose after the oil has been expressed.

I have &c

Offg: Secy

A.B.R. 6/8/72.


From
Dated
Despatched
Received
Enclosures No.
General No.
1873

The Offg Secretary
to the Chief Commissioner of Mysore

Sir

I have the honor to forward an abstract of experiments in cultivating 1/4 of Sunnhemp with Sunflower, at Bangalore, as called for by the Agri Cultural Department.

Sunflower Cultivation will not I think, pay on average Ragi land in this part of Mysore - Soil is already very poor and manure expensive and not easily procured - The Sunflower exhausts soil & requires land full of nitrogenous matter, the process of cleaning the seed pre-existing oil is clumsy & costly and there is no market for it at present. But if a demand arose there are many parts of Mysore (Chikballapur Division for instance) where Sunflower Cultivation would pay -

European Coffee planters would begin to grow it on account its yielding so much potash when the stalks & are burnt - potash being a manure very valuable for Coffee Tobacco Cotton

As a Sanatary measure, it might be desirable even now, to encourage the ryots to grow Neem trees immediately about their fellay villages — on the upside lay at present overgrown with rank weeds — datura &c — The Neem tree is a great feeder & reputed to have the virtue of emitting Ozone & of absorbing malaria. The bodies pervading sunbeams is marked in Europe — In my own experience I cannot trace this act — the Cattle do not care for such food apparently — Partly relish the seed & eagerly the tree &c —

I have the honor to be
Sir
Your most obedient Servant
E. Boddam
on special duty

Bangalore
17 March 1873.

Abstract of results on the Experimental Culture of Sun flow

Extent and quality of land & whether very good, good, ordinary or indifferent	Weight of seed sown, and whether Kumaon or Rohilkhand	Quantity of manure spread on the land, & kind	Date of sowing	Date of harvesting	Particulars				Total			Realizations
						Cost, cultivation &c.						Seeds
Black Cotton soil 1/4 of an acre	2 1/2 lbs.	9 Cart loads Farm yard manure	5th August 1872	20th January 1873	Digging & hoeing	8.	5.	1				Experiment No. 1
					Manure	8.	.	.				324 lbs which will pro-
					Harrowing	"	7.	"				duce 45 Quarts of Oil-
					Harvesting and							Calculating at 12 As. per
					Weeding	5.	"	.				Qt. it worked Amount to
					Land Tax	"	12	.				Rs. 33 12.
					Value of Seed sown	"	8	.				Deduct on Lay
						23	"	1				
					Cost of cleaning the Seed and Expressing Oil	10	"	.				
									33.	"	1	
1/4 of an acre		Different Farm yard Manure	1872	December 1872	Ploughing	2.	2	.				Experiment No. 2
					Manure	8.	.	.				125 lbs, which will
					Harvesting &							produce 17 1/2 Qts of
					Weeding &c.	4	8	6				oil - at 12 As. per Qt.
					Land Tax	.	8.	.				Rs 13. 2 -
					Value of seed sown	.	6	"				
						15	8	6				
					Cost of cleaning the Seed & Expressing							

er at Bangalore in 1872.-

Refuse as fuel	Potash	Total	Remarks
			No. 1
			The seed was sown broad cast on garden land, and the work all done by hands, if sown in drills and the cultivator used, the expense might have been reduced half or even more as in experiments Nos 2 and 3.- The cost of expressing the oil and cleaning the seed is excessive, some method will doubtless be found to greatly reduce the expense in this particular.-
2.	Not yet as cert ained	35 12 "	
	n cured Rs	33. " 1.	No. 2
		2. 11. 11.	The chief cause of failure in this Experiment was the nature of the soil inferior land assessed at 2 Rs per Acre. It would have taken a large quantity of manure of the best kind such as was used in Experiment No 1 to make the land give any thing like a good yield of Sun-flower seed.-
			No. 3.
2.	Not yet as certained	15. 2. "	The 3rd Experiment was made on poor land without any manure at all - Culture carried on exactly in the native style.-

Observation.- From the above three experiments I deduce the following Conclusions:

First that the Sunflower to pay must be grown on good land, full of Nitrogenous matter. 2nd That the manure

28 Bushels	1 1/2 Mds	16 Cwts	29th July	13th Dec	Oil		6	"	"	21. 8. 6
					Deduct realization					15. 2. "
					*					6 6 6

Experiment No 3

40 lbs which will produce 5½ Quarts of oil at 20d per qt — Rs 4. 2.

Dumpian Land	2 1/2 Mds	Not measured	2nd August 1872	10th January 1873	Ploughing		2.	2.	"	
					Harvesting & Sowing		3.	4.	"	
					Value of seed sown		"	8.	"	
					Land Tax		"	8		
							6	6		
					Cost of cleaning seed & Expressing oil		2.	"	"	8. 6 "
					Deduct realization					6. 2.
					*					2. 4.

Morrison Farm
Bangalore 11th March 1873

applied should be either poudrette or a compost as nearly approaching it as possible. 3rdly That the Sun-flower should be sown towards the end of the S.W. mon-soon as heavy rain rots the seed and much of the seed raised in these 3 experiments was destroyed by heavy rains. 4thly That the seed should be sown in drills and bullock-hoed, and that it is of great importance that the seed used for sowing should be carefully selected from the variety of Sun-flower which produces large seed-discs. I had to get seed in the first instance from different parts of Southern India and from Europe, and this mixed seed produced a great variety of Sun-flowers, some tall, some dwarf-a great many sorts produced flowers with large florets and very small discs giving scarcely any seed, these are worthless for cultivation.

No value is given in my account of the large quantity of potash resulting from burning the refuse of the stalks, which is a very valuable manure for Coffee and Tobacco plants, or of the Oil cake which should be of some value as Cattle food, at least equal to that of the Sesame oil plant. Some simpler and more economical way of cleaning and preparing the seed for the oil Mill must be adopted.

As regards fodder, I could not found the Cattle of Mysore take to the leaves of the Sunflower so readily as is stated in Europe. Cows and bullocks do not care to eat the leaves. If the crop is kept for seed, the heat of the Sun shrivels up the leaves by the time the seed is harvested.

E Boddam

Inspecial Duty

Memorandum shewing the result of growing Sun Flower in the 12 Bungalow Central Jail.

Extent and quality of land whether very good, average or indifferent	Weight of seed sown, and whether grown in drills or sown in broad cast.	Quantity of manure spread on the land, and of what kind	Date of Sowing	Cost of Cultivation including Ploughing weeding harvesting	Quantity of seed Realized	Value of refuse as fodder	Date of harvesting the Crop	Remarks	
291 4/9 Yards. Quality of land Average.	Half pound sown in drills.	2 Loads of Sandrette.	5 August 1872.	8 Rupees ×	18 lbs.	8 Annas.	20 January 1873.	Grains very heavy & well ripened - but some what small - Seed sent to Calcutta Botanical Gardens. The experiment = total the produce of 291 4/9 Yards

× Calculated:
Preparing ground and putting in seed Rs 2
Cutting down " 1
Weeding and tending for 5 months at 1 Rupee per month " 5
Rs. 8.

Central Jail
Superintendent's Office
Bungalow 24th March 1873.

C. Hancock M.D.
Superintendent
Central Jail

No. 22

1873

1

From

To The Secretary to the Govt of India
Dept. of Agri: Rev: & Commerce
Simla

Dated 2nd April

Despatched 3rd

Received April 7-8

Enclosures No. 2

General No. 22 } 1873-74
1

Subject

Forwards in continuation of Col. Preston's demi-official Letter of 2nd August last, forwards 2 statements received from Col. Roddam the Superintendent Central Jail reporting the result of the experimental Culture of Sun flower seed.

Remarks

No. 22

Mysore Chief Commr's office
Bangalore 2d April 1873.

The Secretary to the Govt of India
Dept of Agriculture Revenue
& Commerce

Sir,

In continuation of Colonel Puckle's demi-official letter of the 2d August last replying to yours of the 26th July 1872 on the subject of the experimental cultivation of sun-flower seed, I have the honor by desire of the Offg Chief Commr to forward the accompanying copies of statements in tabular form, received from Colonel Boddam, on special duty in connection with Agricultural reforms in Mysore, and the Superintendent, Bangalore Central Jail respectively, containing detailed information in respect of some recent experiments which were carried out by these officers under the Chief Commr's orders, and the results of which were carefully recorded by them.

I have &c

Offg Secy

28/3/73

* Enclosure to his letter dated 17th March 1873.

* Enclosure to his letter No. 191 dated 24th March 1873.

4
1-23

Agri-72-9

From Agent

1873 No 44 9

To The Secretary Agricultural and Horticultural Society of India Calcutta.

Dated 2nd April

Despatched 5th "

Received

Enclosures No. 2

General No. 44 / 9 No 9 } 1873-74

In continuation of this office letter No. 2190 of 7th 421 Augt last forwards 2 statements received from Coll Boddam & the Superintendent Central Jail 6 reporting the result of the experimental culture of sun flower seed -

Genl. No. 44

G. 9.

Mysore Chief Commr's Office
Bangalore 2d April 1873

The Secy. Agricultural and
Horticultural Society of
India — Calcutta

Sir,

In continuation of my predecessor's letter No. 2496 of the 7th August last, replying to your letter of the 30th July 1872 in regard to the Cumbum flower seed experiment, I am desired by the Offg Chief Commr to transmit the accompanying copies of statements received from Colonel Buddam, one of his employés on special duty in connection with agriculture in Mysore and from the Supdt of the Central Jail at Bangalore.

2. These statements contain detailed information in respect of some recent experiments with the Cumbum flower seed carried out under the personal supervision of the officers referred to, and the results therein shown have been carefully recorded

† Enclosure to his letter dated 17th March 1873.

‡ Enclosure to his Letter No. 191 dated 24th March 1873.

recorded.

28/3/73

Agric 1-72-10

1873.

From The Offg Under Secy to the Govt of India

To Depty Supdt Agri Mer Plantations

Dated. 14th May, 1873

Despatched. 21 do

Received. 24 do

Enclosures No.

General No. 1

No. 132

Conveys thanks for the Reports on the Experimental Cultivation of the Sea Island Cotton seed and expresses a hope that the Experiments may be continued this year on a larger scale, and that the Reports may contain such details as may be necessary to ascertain the financial results.

To Govt of India Dept. of Revenue, Agriculture & Commerce

Regt. Sea Island Cotton Experiments

No. 152

From

C. J. Lyall Esquire.
Offg: under Secretary to the Govt; of India.
Department of Agriculture,
Revenue and Commerce.

To

The Chief Commissioner of Mysore.

Simla, dated the 14th May 1873.

Agriculture
Horticulture } Sir,

I am directed to acknowledge the receipt of your letter No. 22/1, dated the 2nd ultimo, and to convey the thanks of the Governor General in Council for the reports therewith transmitted on the experimental cultivation of the sun-flower seed at Bangalore.—

2. I am to express a hope that the experiment may be continued this year on a somewhat larger scale, with selected seed, sown at the season and in the manner and soil which Colonel Boddam may consider best;— and that in Calculating the results,

the oil

the oil may be actually expressed and sold, so that the real financial result may be ascertained.—

1712.

I have the honor to be
Sir
Your Most obedient Servant

Chas. Ian. Fell

Offg: Under Secretary to the Govt of India.

No 207

1874

From Colonel E. Baldwin
Mysore Commissioner

To The Chief Secretary to the Govt of Madras

Dated 29th March

Despatched 30th March

Received

Enclosures No. 1

General No.

Special No.

Agric 1-72-11

Copy of Govt Order No 132 dated 11th April 1874.

Copy of Letter from Lieut Col Baldwin No 116 dated 30th March 1874.

No 89.

Bangalore 29th March 1876

To

The Offg. Secretary to the
Chief Commissioner of
Mysore

Sir

With reference to letter No 152
from the Under Secretary to Govern
ment of India Department of
Agriculture Commerce & Revenue
dated 14th May 1873, requesting
experimental Culture of the Sun-
flower on a somewhat larger
scale this year with selected
seed, I have the honor to submit
a report of my 2nd Years ex-
periment with imported
Russian seed.—

I have the honor to be
Sir,
Your most obedient
E Boddam
Asst Special Duty

1874. No. 132

From

To The Secretary to the Govt. of India dept. of Agri: Rev: & Commerce Calcutta.

Dated 7th April 1874

Despatched

Received

Enclosures No. 1

General No. 132

No.

Referring to letter No. 152 of 17th June 1873 on the subject of experimental cultivation of Sun flower seed, submits copy of a statement from Coll. Boddam regarding his 2 years experiment with imported Russian seed.

1 enclosure

Orig. sent to dept.

Agri 1-72-12

Mysore L. L. Office

Bangalore 7th April 1874.

No. 132
4

To,

The Secy: to the Govt of India
Dept of Agriculture Revenue
and Commerce.

Sir,

With reference to your letter No. 152 dated 14th May 1873 on the subject of Experimental cultivation of Sunflower seed, I have the honor by desire of the Chief Commr to forward the accompanying copy of a statement in tabular form, received from Colonel Baddeley, containing detailed information in respect to his 2nd years experiment with imported Russian seed.

I have &c

4/4/74.

Offg: Secy

Result on the experimental Cultivation of Linseed

Extent and Quality of Land	Weight of Seed sown & Quantity of Manure used	Date of Sowing	Date of Harvesting	Outlay incurred. Particulars	Outlay incurred. Amount	Realization. Seeds	Refuse as fuel	Leaves as fodder	Oil Cake	Pot-ash	Total
One acre - 1st Class Rayi Land Soil Alto - Loam in Quality	12 lbs and 25 lbs Cow dung	29th August 1873	Between the 20th Nov & 2nd Dec 1873	Manure 25. " " Ploughing Sowing and harrowing 11. " " Cost of Seed 1 " " Assessment of Land 4 " " Harvesting 4 " " Watcher's pay 12 " * Cost of Expressing the oil & husking the Seed 61. 6 5	118 6 5	1800 Seers, which will produce 50 Gallons of oil, at 9 Annas per Quart Rs 112. 8. "	9	5	6	6	138. 8. " Deduct outlay incurred 118. 6 5 Profit 20 1 7

Bangalore
29th March 1874

at Bangalore, in 1873

Remarks

Six ~~lbs~~ of Giant Russian Sunflower seed was imported and sown on an acre of good Raggi land, the yield being 1800 seers yielding 50 Gallons of oil.-

This Sunflower is a very much larger Plant than that of the Country, growing from 7 to 8 feet in height, and bearing one large head. I measured six of the heads taken from one plot of average growth:

No 1. 35 Inches in circumference. Weight 3 lbs. 1875 Seeds.
" 2. 29 " " 1 lb. 4 oz. 1427 Seeds
" 3. 27 " " 1 " 4 " 1140 "
" 4. 27 " " 1 " 4 " 1202 "
" 5. 27 " " 1 " 970 "
" 6. 25 " " 1 " 1102 "

And these seeds are nearly double the size of the Country sort.

The leaves were also dried and pounded. about 500 lbs of such dry fodder realised which used mixed with meal and bran for cows, is good food for milch Cows, and will keep a long time.-

The seed was first husked by Women and converted into Coarse meal, 20 seers of raw seed making 9¼ of meal, and this was then pressed for oil. Fifty seers of the meal yielding three gallons of oil and 35 lbs of oil cake.-

The Empty seed heads and stalks make fine fuel which subsequently yields ten Cwts. of ashes very rich in potash, excellent manure for Coffee and tobacco.-

The stalks are said to be used in China for fibre to mix for the China Grass cloth.-

I have valued the oil this time at nine Annas instead of twelve Annas per quart, and with the view to ascertaining its market value a large quantity has been sent for Experiment and report to the Agent and Manager Madras Railway Company, also to the Commissariat and Ordnance Departments, Bangalore Central Jail, Cubbon Hotel Keeper, & Government Printing Press, and these Departments have been requested to furnish a report of the results of their experiments, and what price they would give per Gallon for the oil.-

* The item 12 Rupees incurred for watching the Crop is an extraordinary Charge, the land available being unenclosed and near the native town, the flowers were liable to be stolen

E Boddam
on special Duty

16-141
30-

1874.

~~From~~

To The Secy Agricultural and Horticultural Society of India, Calcutta

Dated 7th
Despatched 8. } April
Received 15th

Agri. 1-72-13

Enclosures No. 1 2

General No. 141
No. 30.

Forwards Copy of a Statement received from Colonel Boddam containing detailed information in respect to his 2 years experiment with imported Russian Sun flower seed.

Forwarded the Enclosure to 22/4/74.

Mysore L. L. Office.

Bangalore 7th April 1874.

No 141.
G 30.

To, The Secy: Agricultural and Horticultural Society of India
Calcutta

Sir,

I have the honor, by
desire of the Chief Commr
of Mysore to forward for your
information Copy of a Statement
in tabular form, received from
Colonel Beddam containing
detailed information in respect
to his 2nd Years Experiment
with imported Russian Sun
flower Seed.

I have &c

Offg: Secy:

6/4/74.

No. 4.

187 4.

From The Under Secy. to the Govt. of India

To Depart. of Rev. Agri. & Commerce

Dated 24 April

Despatched

Received 28 50

Reg. 3

Enclosures No.

General No. 1325

No.

Conveys [illegible] the report [illegible] with this Office No. 132 dated 9 April in the cultivation of the Crown flower plant [illegible] that a further communication [illegible] to the so-called [illegible] of the oil will be awaited.

Copy sent to Col. Boddam [illegible] 28 April/74.

To call Boddam's [illegible]

20739

17/95

29.4.74 –

The Secretary
of State for
Defence presents
his compliments
to Mr Wilson
and has pleasure
in forwarding
herewith

D.L.

Copy to Col. Bonsall
for information. Could
you write an appropriate
reply from the
Defence to include the
sum-flower oil
been sent for Exper
ment.

28.4.74

No. 1355-

FROM

C. J. LYALL, ESQUIRE,

Under-Secretary to the Government of India,
Department of Revenue, Agriculture,
~~Revenue~~ and Commerce,

TO

The Officiating Chief Commissioner
of Mysore.

Calcutta dated 21 April 1874.

Agriculture and Horticulture

SIR,

I am directed to acknowledge the receipt of your letter No. 132/4 dated 7th Instant, and to convey the thanks of the Governor-General in Council for the report therewith transmitted, on the further experimental cultivation of the sun-flower plant at Bangalore with imported Russian seed.

2. The report will be published in the Gazette of India, and His Excellency will await a further communication as to the market value of the oil extracted from the seed, when replies will have been received from the Departments and Offices to whom it was sent for valuation.

I have the honor to be
Sir,
Your most obedient Servant

Chas. J. Lyall

Under-Secretary to the Government of India

1/
S. 40.

No. 49

1874.

From The Secretary to the
To Agricultural & Hort. Society of India Calcutta

Dated
Despatched 1st May 1874
Received 28 April 1874.

April 1-72-15

Enclosures No.

General No. 1148
No. 3032

Acknowledges, with thanks, the receipt of the Statement showing the result of Col. Boddam's second year's experiment with Russian Sun flower & requests that a small quantity of the acclimated seed may be sent for trial in the Society's Garden &c. —

Copy to Col. Boddam with a request that the application for seeds be complied with direct.

Moreira
28-4-74

29/4.

30/4/74.

bn

Agricultural & Hort. Society of India
Metcalfe Hall Calcutta 22d September

To

The Offg Secretary to the
Chief Commissioner of Mysore

Sir

I am directed by the Council of the Society to request that you will convey to the Chief Commissioner their best acknowledgements for the statement enclosed in your No. 1141 of the 7th inst. The information contained therein in respect to Col. Goddard's second year's experiment with imported Russian Sun Flower seed is both useful and interesting.

I am to add that the Council would be much obliged for a small quantity of the acclimated seed for trial in the Society's Garden & elsewhere if it can be conveniently spared.

I have the honor to be
Sir
Your most obdt Servt
H. Blechynden
Secretary

1/593

W.803/148

1874.

From

To Colonel E. Ruddan
On special duty.

Dated

Despatched 5 April 6 May.

Received 8th

Agric 1-72-16.

Enclosures No. 1

General No. 803 & 1874/75.
G.C. No. 148

Letter dated 23rd April /74 from the Secy: Agricultural & Horticl Society of India, acknowledging receipt of the statement shewing the result of Colonel Ruddans second years Experiment with imported Russian Sun flower seed and requesting that a small quantity of the acclimatized seed may be sent for trial in the Society's Garden.

Forwards Copy of the above, with a request that his application for seed

Leads may be complied
with as direct.

By Order

Offg: Secy.

30/4/74.

9/593

1874.

993/9

From

To Col. Boddam

Dated 8th on Special duty

Despatched 8 May 1874.

Received

Enclosures No. 1

Agric 1-72-17

General No. 993

8C No. 190

In continuation of this Office No 803/168 of the 1st instant, forwards, for perusal and return, a printed Copy of the marginally noted document, received from the Secretary to the Agricultural & Horticultural Society of India. —

"By order"

Offg. Secretary.

+ on the subject of experimental cultivation of Sun flower at Bangalore in 1873.

Proceedings of the usual Monthly General Meeting of the Agrl. & Hortl. Society of India held on the 15th of April 1874. —

B.
6-5-74.
P.L.

9

9
893

1874

From Col Boddam Actg Govt

To The Secretary to the Govt of India

Dated 19 June

Despatched 24 6

Received 24 6

Enclosures No. 1

General No. 23
No.

Report on experiment with Sunflower oil

Note. This further report is awaited by the Govt of India. Vide their letter No 1365 dated 21st April 1874. May it be communicated to them?
20.6.74

Thick jet. I should be getting over this prejudice to any thing here.
23/6.
W Aitken

Agri 1-12-18

The report is not a very encouraging one as it shows that the oil is not to be used for general purposes as was believed.

I doubt very much if it would be profitable to introduce any improved method of expressing the oil without first ascertaining that it would be worth while to do so. But enquiry might be made as to the modes of doing this in Italy.

The report will be sent on with the letter from Capt

23.6.74

I believe the native method of extracting oil from seeds cannot be improved upon. It would be of use getting improved machinery for the sun flower although Col. Boddam suggests the native methods.

No 23

Bangalore
19th June 1874

To
The Secretary to the Chief Commissioner
of Mysore

Sir,

I have the honor to enclose an original letter from the Agent & Manager of the Madras Railway requesting that the Lamplamer Oil sent him, for stated reasons is not suited to Railway purposes. For the same reasons the oil is not approved of by the Commissariat Department at Madras - this was then for lubricating steam machinery. The Ordnance Department at Bangalore state that the oil will answer for the purposes required with Annual, but as to the price - the Inspector General of Ordnance and Magazines would not be prepared to purchase it unless at a reduced rate - Rangoon oil is now used being cheaper. The Light of the Central Jail used it for paint but found that in its present state it dries too slowly this he could rectify by having the oil clarified by boiling with lead

He considers Neat's foot oil very good and that it could be applied in many ways — The proprietor of the Carlton Hotel pronounces unfavorably on it for cooking purposes, while another & independent dealer, that the oil is heavily superior to olive oil for culinary purposes & burns well without giving off smoke — None of the persons to whom the oil has been sent seem to have thought of trying it mixed with other oils — I am informed that in Italy sunflower oil is largely used for adulterating olive oil which it so closely resembles. I also think that the cost of expressing the oil could be reduced and it was suggested that the natives would make it extensively, as it is superior to the Cocoanut oil they now use in cookery

Neat's foot was expected in the rude nature will —

and the only way I could kill the deeds was troublesome and somewhat wakeful. I should think that in Italy they must have some way of making the evil both cheaper and better

I have the honor to be
Sir
Your most obedient Servt
E Dodd Lane
Asst Surgeon

Madras Railway Company.

AGENT & MANAGER'S OFFICE,

Madras, 8th June 1874.

No. 1796.

From

The Agent and Manager
Madras Railway Co.

To

Colonel C. Boddam
on special duty
Mysore Commission
Bangalore.

Sir,

With reference to your letter of the 14th of November 1873, I have now the honour to invite your attention to the enclosed copy of a letter from the Acting Locomotive Superintendent of this Company reporting the result of the experiments made with the sample of Saw Flower Oil B which you were good enough to send me.

Under the circumstances explained by Mr Boddam you will I am sure readily

understand my inability to become a
purchaser of your Sun Flower Oil.

I have the honour to be,
Sir,
Your most Obedient Servant.

Wm. J. Lucas

Agent and Manager.

Madras Railway
Loco. Superintendent's Office
Perambore Works 6th June 1874.

No 224.

To

The Agent and Manager

Dear Sir,

Sun Flower Oil.

Referring to the correspondence noted in the margin, I beg to inform you that I have given the sample of Sun Flower Oil a series of trials on both our Locomotive Engines and the Machinery in our Shops, and I find that this oil will not answer at all for our Locomotive Engines, as it has little body and passes so rapidly through the syphons, though tightly trimmed, that they are emptied during a short run. This, I need scarcely point out, would be a most serious inconvenience on fast-running trains. On trying this oil on our Shop Machinery I find that the consumption is more than four times greater than that of Castor Oil, and constant attention is required to the Bearings to prevent them from running dry. This on a large Shop would involve considerable expense and trouble.

From Col. C. Reddam, on Special duty abyssinia Commission, to Agent & Manager, S.I.R. — 17th Nov 1873.

From Agent & Manager to Loco. Superintendent — No 708 - 11 March 1874.

From Agent & Manager to Sy Loco. Supt'd No 1533 - 16th March —

Yours Coy[illegible]

Agent & Manager

Yours faithfully
(sd) C. C. Reddy
Sy. Loco. Supt'd.

V.

1874. No. 20.

From The Govt. Secy. Govt. India

To Secy. to Govr. Genl.

Calcutta

Dated 22d June

Despatched 16

Received 29 — " —

ENCLOSURES NO.

General No.

No. 2070

Invites attention and reply to Govt. letter dated 12th ult. regarding Market value of Kuki-Kumer oil.

An answer was despatched on the 29th Instant. May it be so intimated?

29-6-74

29/6

29/6/74.

DEPARTMENT OF REVENUE, AGRICULTURE AND COMMERCE.

Agri: & Hortl

The 22d June 1874.

No. 2070

To

The Chief Commissioner of Mysore.

Subject.

Market value of Sun-flower oil.

SIR,

I AM directed to invite attention to the communication marginally noted,* and to request an early reply thereto.

I have the honor to be,

SIR,

Your most obedient Servant,

Chas. Ins Gold

Under Secretary to the Govt. of India.

* No. 1355 dated 21st April 1874.

Subsequent reminder

No. dated

1874.

No. 2289

From

To The Under Secty: to the Govt: of India
Dept: of Rev: Agri: and Commerce.
Calcutta.

Dated Bangalore 27th June/74.
Despatched " do
Received 29th " do

ENCLOSURES NO.

General No. 2289
No. 45.

Agri 1-72-20

Forwards Colonel Beddome's report with its enclosures regarding the experiments made with the Sun flower oil &c.

1874.

From

To Flee Under Secty: to the Govt: of India
Dept: of Rev: Agri: and Commerce.
Calcutta.

Dated Bangalore 27th June/74.
Despatched ..do..
Received 29th ..do..

ENCLOSURES NO.

General No. 2289
No. 45.

Forwards Colonel Beddome's report with its enclosures regarding the experiments made with Siam Plows etc.

Agri 1-72-20

No. 2289
45.

Bengal Chief Commr's Office
24th June 1874

Agri: 1-72-211

The Under Secy to the Govt of India. Dept of Revenue Agriculture & Commerce

Sir,

With reference to the Correspondence ending with your letter No. 1355 of the 21st April 1874, I am directed by the Chief Commissioner to forward the accompanying copy of a report by Colonel Boddam together with its enclosures regarding experiments made with the sunflower oil, from which it will be seen that the oil is not so suited for general purposes as was at first believed.

No. 23 of the 19th June 1874

2. With regard to the

The remarks contained in the concluding part of Colonel Boddam's letter, the Chief Commissioner doubts very much if it would be possible to introduce any improved method of expressing the oil without going to an expense ~~that it would~~ hardly be worth while to incur, but at the same time he would suggest that some enquiry may be made regarding the mode adopted in Italy for extracting the oil.

I have &c &c

[signature]

24/6

Followed
27/6/74.

Ld 93.

Agre 1-72-dd

1874. No. 2410
46.

To
The Under Secretary to the Govt of India
Deptt of Rev: Agri: & Commerce
Calcutta.

Dated 30th June
Despd

Genl No. 2410
46

Acknowledges receipt of
No. 2078 of 22 July 1874
and informs
that a reply to communication
regarding the market value of
Sunflower oil has already been
despatched.—

From the Secretary of State

1874.

From

The Secretary to the Chief Commissioner
of Mysore.

To The Under Secretary to the
Govt of India
Dept of Rev. Agri & Com.
Calcutta

Dated Bangalore 30th June 1874
Despatched 1st July
Received

ENCLOSURES NO.

General No. 2110 | 1874
No. 46.

Sir,

I am directed to acknowledge the receipt of your Memorandum No 2070 of the 22nd instant, and to inform you that a reply to your Communication No 1353 dated 21st April 1874 regarding the market value of Sandal oil, was despatched from this office on the 27th instant, in letter No 2289
45.

29/6/74.

Yours &c
C. Rangacharlu
Secy to Govt
Rev. & Ag.

2

Apr 1-72-23

No. 93. 236 1874.

From The Under Secy. to the Govt. of India
Dept. of Rev. Ag. & Commerce
To Calcutta.

Dated July 7th
Despatched
Received 13th
Rep. 23 ENCLOSURES NO.

General No.
No. 2185

In reply to ~~No. 228~~ 245 of the 7th June 1874, states that the Secy. of State has been asked to supply the information as to the method used in extracting oil from the sun-flower seed in France & Italy.

Copy to Col. Beadon with reference to his No. 2127 of the 19th ultimo.

13-7-74

Mr. Carnac
14-7-74

No. 2185

FROM

C. J. LYALL, ESQUIRE,

Under-Secretary to the Government of India,
Department of ~~Revenue~~ Agriculture,
~~Revenue~~ and Commerce,

To The Chief Commissioner of Mysore

Calcutta dated 7th July 1874.

Agriculture and Horticulture

SIR,

I am directed to acknowledge the receipt of your Officiating Secretary's letter dated the 27th ultimo, No. 2289/45, and in reply to inform you that the Secretary of State has been asked to supply the information as to the method used in France and Italy for extracting oil from the seed of the sun-flower.—

I have the honor to be

Sir,

Your Most Obedient Servant

C. J. Lyall

Under Secretary to the Government of India

1.5.11